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OOSE credit activity

## Collage Administration System

### Classes of collage Administration System:

- CollegeManagement: This class is the overall main class of the whole system.
- Department: This class contains the details of various departments in the college.
- Student: This class is for students, and it is the base class for two child classes UGStudent and Student. Since UGStudent is a Student and Student is a student
- Staff: There are two types of staff in the college. So, this class is the base class of two child classes – Teaching Staff and Nonteaching Staff
- Library: This class contains the details of a particular library in the college

### Attributes of college administration System:

- CollegeManagement: College Name, City, ContactNumber
- Department: DepartmentId, DepartmentName, HODName, TotalStaffs, TotalStudents
- Student: StudentId, StudentName, Gender, Year, ClassId
- Staff: StaffId, StaffName, DepartmentId, Salary
- Library: LibraryId, LibrarianName, BookSection, TotalBooks

### Methods of college administration System:

- CollegeManagement: Open (), CollegeDetails ()

- Department: ShowEvents ()
- Student: StudentDetails (), PayFees (), IsPresent ()
- Staff: StaffDetails ().
- Library: LibraryDetails (), SearchBooks (), LendBooks (), ReturnBooks (), PayFine ()

## Hospital Management System

### Classes of Hospital Management System:

- Hospitals Class: To supervise all the operations of Hospitals
- Patient Class: To supervise all the operations of patient
- Doctors Class: To supervise all the operations of doctors
- Nurses Class: To supervise all the operations of Nurses
- Appointments Class: To supervise all the operations of Appointments
- Medicines Class: To supervise all the operations of Medicines

### Attributes of hospital Management System:

- Hospitals Entity: Attributes of Hospitals are hospital\_id, hospital\_doctor\_id, hospital\_name, hospital\_place, hospital\_type, hospital\_description, hospital\_address
- Patient Entity: Attributes of Patient are patient\_id, patient\_name, patient\_mobile, patient\_email, patient\_username, patient\_password, patient\_address, patient\_blood\_group
- Doctors Entity: Attributes of Doctors are doctor\_id, doctor\_name, doctor\_specialist, doctor\_mobile, doctor\_email, doctor\_username, doctor\_password, doctor\_address
- Nurses Entity: Attributes of Nurses are nurse\_id, nurse\_name, nurse\_duty\_hour, nurse\_mobile, nurse\_email, nurse\_username, nurse\_password, nurse\_address,

- Appointments Entity: Attributes of Appointments are appointment\_id, appointment\_doctor\_id, appointment\_number, appointment\_type, appointment\_date, appointment\_description
- Medicines Entity: Attributes of Medicines are medicine\_id, medicine\_name, medicine\_company, medicine\_composition, medicine\_cost, medicine\_type, medicine\_dose, medicine\_description

### Methods of Hospital Management System:

- Hospitals Method: addHospitals (), editHospitals (), deleteHospitals (), updateHospitals (), saveHospitals (), searchHospitals ()
- Patient Method: addPatient (), editPatient (), deletePatient (), updatePatient (), savePatient (), searchPatient ()
- Doctors Method: addDoctors (), editDoctors (), deleteDoctors (), updateDoctors (), saveDoctors (), searchDoctors ()
- Nurses Method: addNurses (), editNurses (), deleteNurses (), updateNurses (), saveNurses (), searchNurses ()
- Appointments Method: addAppointments (), editAppointments (), deleteAppointments (), updateAppointments (), saveAppointments (), searchAppointments ()
- Medicines Method: addMedicines (), editMedicines (), deleteMedicines (), updateMedicines (), saveMedicines (), searchMedicines ()

## Hostel Management System

### Classes of Hostel Management System:

- Hostel Class: Manage all the operations of Hostel
- Beds Class: Manage all the operations of Beds
- Rooms Class: Manage all the operations of Rooms
- Rent Class: Manage all the operations of Rent
- Allotees Class: Manage all the operations of Allotees
- Payments Class: Manage all the operations of Payments

### Attributes of Hostel Management System:

- Hostel Entity: Attributes of Hostel are hostel\_id, hostel\_name, hostel\_type, hostel\_rent, hostel\_description, hostel\_address
- Beds Entity: Attributes of Beds are bed\_id, bed\_name, bed\_type, bed\_description
- Rooms Entity: Attributes of Rooms are room\_id, room\_exam\_id, room\_number, room\_type, room\_description
- Rent Entity: Attributes of Rent are rent\_id, rent\_hostel\_id, rent\_title, rent\_amount, rent\_type, rent\_description

- Allotees Entity: Attributes of Allotees are allotee\_id, allotee\_name, allotee\_mobile, allotee\_email, allotee\_username, allotee\_password, allotee\_address
- Payments Entity: Attributes of Payments are payment\_id, payment\_customer\_id, payment\_date, payment\_amount, payment\_description

### Methods of Hostel Management System:

- Hostel Entity: addHostel (), editHostel (), deleteHostel (), updateHostel (), saveHostel (), searchHostel ()
- Beds Entity: addBeds (), editBeds (), deleteBeds (), updateBeds (), saveBeds (), searchBeds ()
- Rooms Entity: addRooms (), editRooms (), deleteRooms (), updateRooms (), saveRooms (), searchRooms ()
- Rent Entity: addRent (), editRent (), deleteRent (), updateRent (), saveRent (), searchRent ()
- Allotees Entity: addAllotees (), editAllotees (), deleteAllotees (), updateAllotees (), saveAllotees (), searchAllotees ()
- Payments Entity: addPayments (), editPayments (), deletePayments (), updatePayments (), savePayments (), searchPayments ()